

SECTION 502 SUPERPAVE ASPHALTIC CONCRETE MIXTURES

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
FOR PROJECTS, OR SEPARATE LOCATIONS WITHIN A PROJECT, REQUIRING LESS THAN 250 TONS, THE JMF, MATERIALS, AND PLANT AND PAVING OPERATIONS SHALL BE SATISFACTORY TO THE ENGINEER. SEE SUBSECTION 502.12 for further details.										
ADDITIVES	Anti-Stripping	502.02 1002.02(a) Mat. Lab	Prelim. Source Approval	Dist. Lab S 612	1/batch or storage tank	1 pt Friction top can	----	----	10 days	(QPL 57)
		502.02 1002.02(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment/ plant*	1 pt Friction top can	CD 1 & 7	----	10 days	(QPL 57) *Sample when not accompanied by CD or questionable.
	Hydrated Lime	502.02 1018.03(a) Mat. Lab	Accept.	Proj. Engr. S 102	1/shipment*	----	CD 1 & 7	----	10 days	(QPL 34) *Sample only if questionable.
AGGREGATES	Combined Aggregates (Moisture Content)	503.09(b) Contractor	Quality Control	Contractor S 101	2/day/plant*	1 gal Suitable container	----	----	----	For drum-mixer plants.*Sample prior to starting plant & during operation. May be reduced to 1/plant/day when weather & stockpile conditions warrant, as allowed by DOTD inspector.
	Gravel, Stone & Crushed Slag	502.02 1003.06(a)(1) Dist. Lab	Accept.	Proj. Engr. S 101	1/source/ plant/size	1 full sample sack	----	----	5 days	(QPL 2) For % crushed, CAA, & Flat & Elong.
	Fine Aggregate (No. 4)	502.02 1003.06(a)(2) Dist. Lab	Accept	Proj. Engr. S 101	1/source/ plant	1 full sample sack	----	----	5 days	(QPL 2) Includes Sand Equivalent and Fine Aggregate Angularity
	Natural Sand	502.02 1003.06(a)(3) Dist. Lab	Accept./ Design	Proj. Engr. S 101	1/source/ plant	1 full sample sack	----	----	5 days	(QPL 2) Includes sand equivalent testing.
	Reclaimed Asphaltic Pavement (RAP)	502.02(c)(2) 1003.06(a)(5) Dist. Lab	Accept./ Design	Proj. Engr. S 101	1/stockpile	3 full sample sacks	----	----	----	For % AC, % crushed and gradation.

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MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANTITY	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALT MIX RELEASE AGENT		1018.26 503.04 Proj. Engr.	Accept. *	----	----	----	----	----	----	(QPL 25) * Visual inspection for performance by Proj. Engr.
ASPHALTIC CONCRETE (PLANT)	Anti-Strip Additive, %	502.12(b)(2) 502.12(c)(2) Proj. Engr.	Accept.	Proj. Engr. S 605	1/half lot	*	----	----	----	* Range given on JMF, % AS from meter.
	Asphalt Cement, %	502.12(b) Proj. Engr.	Accept.	Proj. Engr. S 605	1/half lot	*	----	----	----	* % AC from meter or scales. See QA Manual.
	Gyratory Specimens (Water Susceptibility)	502.03 Contractor	Design	Contractor S 203	1/set/JMF	6 briquettes/set	----	----	----	Results submitted with JMF.
			Verif.	Contractor S 203	1/set/JMF	6 briquettes/set	----	----	----	First production day after Validation.
			Quality Control	Contractor S 203	1 set/ 10 lots/ JMF	----	----	----	----	----
	Gyratory Specimens (Volumetric)	502.12 Contractor	Quality Control	Contractor S 203	2/sublot	----	----	----	----	Unaged N-Max.
		502.12 Project Engr.	Accept.	Proj. Engr. S 605	1/sublot	----	----	----	----	Aged N-Des.
		502.12 Dist. Lab	Verif.	Proj. Engr	1/lot	Suitably wrapped	----	----	5 days	Shall be acceptance samples representing each lot of plant operation.
		502.12(b) Dist. Lab	I A	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					

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		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (Plant)	Job Mix Formula (JMF)	502.03(b) Contractor	Design	----	1/mix type/plant	----	----	----	----	Contractor shall submit to the Dist. Lab Engr. the proposed job mix formula with supporting design data. Approval is required prior to starting work.
		502.03(c) Contractor & Proj Engr	Verification	Contractor & Proj. Engr.	1/JMF	----	----	----	----	*5 samples on 1 st day's production or max. 1000 tons for validation.
	Loose Mixture (Maximum Specific Gravity)	502.12 Contractor	Quality Control	Contractor S 203	2/sublot	suitable sampling bucket	----	----	----	Unaged samples.
		502.12(b) Proj. Engr,	Accept.	Proj. Engr. S 203	1/sublot	suitable sampling bucket	----	----	----	----
	Loose Mixture (Asphalt Coating)	503.02(m) Contractor	Mix Design/ Quality Control	Contractor S 203	1/JMF*	1 gal Friction top can	----	----	----	*Additional tests shall be taken to control asphalt coating of aggregates in mixture.
		503.02(m) Proj. Engr.	Accept.	Proj. Engr. S 203	1/JMF*	1 gal Friction top can	----	----	1 day	*Additional tests shall be taken if asphalt coating is questionable.
	Loose Mixture (Gradation, % AC and % Crushed)	502.12 Contractor	Quality Control	Contractor S 203 & S 605	1/sublot*	Suitable sampling bucket	----	----	----	Used for PWL calculations
		501.12(b) Dist. Lab	I A	Dist. Lab S 203	----	----	----	----	7 days	See Independent Assurance Program S 701. Whenever possible, sample at same time acceptance sampling is done.

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		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (Plant) (Cont'd)	Loose Mixture (Moisture Content)	502.12(a) 503.09 Contractor	Mix Design/ Quality Control	Contractor S 203	1/lot	1 gal Friction top can	----	----	----	----
		503.09 Proj. Engr.	Accept.	Proj. Engr. S 203	1/day	1 gal Friction top can	----	----	1 day	----
	Loose Mixture (Absorption Recovery)	503.02(a) Mat. Lab	Accept.	Proj. Engr. S 203	1/plant*	1 gal Friction top can	----	----	14 days	Plant Certification. *Additional samples will be taken if plant process is questionable.
	Loose Mixture* (Temperature)	503.09 Contractor	Quality Control	Contractor S 605	2/sublot	----	----	----	----	*Temperature of mixture at discharge chute.
		503.09 Proj. Engr.	Accept.	Proj. Engr. S 605	1/sublot	----	----	----	1 day	*Temperature of mixture in truck at plant.
	Density	502.12(b) Proj. Engr.	Accept.	Proj. Engr. S 203 & S 605	5/sublot/ mix use/ project*	4 or 6 in. diameter core	----	----	1 day	* See QA manual for shipment of cores.
		502.12(b) Dist. Lab	Verif.	Proj. Engr. S 203 & S 605	2/sublot/ project	4 or 6 in. diameter core	----	----	5 days	Five are selected at random for verification testing.
		502.12(b) Dist. Lab	I A	Dist. Lab S 203	SEE INDEPENDENT ASSURANCE PROGRAM S 701.					

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		TESTED BY		METHOD		CONTAINER	DISTR.			
ASPHALTIC CONCRETE (In-Place)	Longitudinal Surface Tolerance	502.10 Contractor	Quality Control	Contractor TR 641 S 605	Each lot/project	Entire length/ two paths/paving strip	----	----	----	Cont. must furnish an approved 25 ft profilograph, or approved alternate. Applies to roadway and airport WC & BC and parking area WC.
		502.10 Contractor	Quality Control	Contractor S 605	5/sublot/project	----	----	----	----	Applies to WC on shoulders (less than 10 ft wide), turnouts, crossovers, and roadway section less than 100 ft. Use an app. 10 ft metal static straightedge.
		502.12 Dist. Lab or Proj. Engr.	Accept.	Dist. Lab or Proj. Engr. TR 641 S 605	Each lot/paving strip	Entire length/ two paths/paving strip	----	----	2 days	Applies to final roadway or airport wearing course surface. AC data may be accepted.
		502.12 Proj. Engr.	Accept.	Proj. Engr. S 605	1/300 ft	Entire length	----	----	1 day	Applies to final wearing on shoulders. Cont. shall furnish an app. 10 ft metal static straightedge.
	Loose Mixture* (Temperature)	502.07 Proj. Engr.	Accept.	Proj. Engr. S 605	2/sublot	----	----	----	1 day	*Temperature of mixture in paver hopper.
	Transverse Surface Tolerance, Cross Slope and Grade	502.10 Contractor	Quality Control	Contractor S 605	*	----	----	----	----	*As needed to control project within spec. requirements.
		502.10 Proj. Engr.	Accept.	Proj. Engr. S 605	*	----	----	----	1 day	*Test at selected locations for conformance to specs.
	Thickness & Width	502.11 Dist. Lab	Accept.	Dist. Lab TR 602	*	----	----	300 lin ft per location	3 days	Applies to mixtures specified for payment on a cubic yard or square yard basis. *See DOTD TR 602.

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